

Serail No. 09/837,630

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Atty. Docket No. 21417/92141

On page 12, line 11, please add --(SEQ ID NOS: 20-32, respectively, in order of appearance)--after "antigens"

On page 13, line 8, please add --(SEQ ID NO: 5)-- after "MQEIDKKLTQKN"

On page 13, line 9, please add --(SEQ ID NO: 6)-- after "KNLESYQKDA"

On page 13, line 10, please add --(SEQ ID NO: 7)-- after "QKDAKELKGKRN"

In the FIGS

In FIG. 1, please add --(SEQ ID NO:1)-- after "qknlesyqkdakelkgkrrr"

In FIG. 2a, please add --(SEQ ID NO:2)-- after "homologous sequence"

In FIG. 2a, please add --(SEQ ID NO:3)-- after "protein sequence"

In FIG. 2a, please add --(SEQ ID NO:4)-- after "homologous sequence"

In FIG. 2b, please add --(SEQ ID NO:2)-- after "homologous sequence"

In FIG. 2b, please add --(SEQ ID NO:3)-- after "protein sequence"

In FIG. 2b, please add --(SEQ ID NO:4)-- after "homologous sequence"

In FIG. 3, please add --(SEQ ID NO: 5)-- before "Test Data"

In FIG. 4, please add --(SEQ ID NO:6)-- before "Data"

In FIG. 5, please add --(SEQ ID NO:7)-- before "Data"

In FIG. 6, please add --(SEQ ID NO:8)-- after "LPALKENNGKV"

In FIG. 6, please add --(SEQ ID NO:9)-- after "VTTKGERTFEYNN"

In FIG. 6, please add --(SEQ ID NO:10)-- after "LEQNEGFKRRV"

In FIG. 6, please add --(SEQ ID NO:11)-- after "TVDASGKRSISG"

In FIG. 6, please add --(SEQ ID NO:12)-- after "MWEIDKKLTQKN"

In FIG. 6, please add --(SEQ ID NO:13)-- after "NTRYDRWAKD"

In FIG. 6, please add --(SEQ ID NO:14)-- after "INGDKRTGGKPNTPE"

In FIG. 6, please add --(SEQ ID NO:15)-- after "SSSEYEKLKA"

In FIG. 6, please add --(SEQ ID NO:16)-- after "KEQHIEAKGPDV"

In FIG. 6, please add --(SEQ ID NO:17)-- after "QQTHRKINRP"

In FIG. 6, please add --(SEQ ID NO:18)-- after "KQAE EANKTP"

In FIG. 6, please add --(SEQ ID NO:19)-- after "KTPDKPDVW"

In FIG. 8, please add --(SEQ ID NO:20)-- after "QGQDVRQPG"

In FIG. 8, please add --(SEQ ID NO:21)-- after "GRDGE"

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In FIG. 8, please add --(SEQ ID NO:22)-- after "GGFDEKAGGA"

In FIG. 8, please add --(SEQ ID NO:23)-- after "WPGLPGA"

In FIG. 8, please add --(SEQ ID NO:24)-- after

"GLPGTPGTDGPKGASGPAGPPGAQGPPG"

In FIG. 8, please add --(SEQ ID NO:25)-- after "GPEGAPGKDGGGRGLT"

In FIG. 8, please add --(SEQ ID NO:26)-- after "GEVGPPGPAGSAGARGAP"

In FIG. 8, please add --(SEQ ID NO:27)-- after "TGPKGARGAQQPPGAGFPGAA"

In FIG. 8, please add --(SEQ ID NO:28)-- after "NGNPGPPGPPGPS"

In FIG. 8, please add --(SEQ ID NO:29)-- after "LOGPAGPP"

In FIG. 8, please add --(SEQ ID NO:30)-- after "AVGAPGAPGPPGSPGPAGPGKQGD"

In FIG. 8, please add --(SEQ ID NO:31)-- after "KGHRGFTGLQ"

In FIG. 8, please add --(SEQ ID NO:32)-- after "IGPPGPRGRSGETGPAGPPGN"

No fees in addition to that for the extension of time are believed due at this time, however, please charge any deficiencies or credit any overpayments to deposit account number 10-0435 with reference to our attorney docket number (21417/92378).

Please contact applicant's representative if there are any issues to be resolved.

Respectfully submitted,

Miss O. M. M. M.

Alice O. Martin
Registration No. 35,601
Attorney for Applicant

BARNES & THORNBURG
2600 Chase Plaza
10 South LaSalle Street
Chicago, IL 60603
(312) 357-1313
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CHDS01 AOM 113376v1

#3

1 mktngfhkdfawkkollgasvgallvgcsphiietnevalknypasekvqaldekil
61 lrpafqysd~~niakeyenkfkn~~qvtvkveqilqnqgykvinvdssdkddfsfaqqkeqyla
121 vamingeivlrpdpkrtiqkksepglfstgldkmegvli pagfvkv tilepmsgesldsf
181 tmdlseidige~~kflkt~~thsshsgglvstmvkqtdnsndaiksalnkifgsimgeidkklt
241 aknlesyqkdakelkgkrnr (SEQ ID NO:1)

FIG. 1

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Streptococcus pneumoniae pspA homologous sequence ->
(SEQ ID NO: 2)

x x x I D K x x T Q K x L E x x x D A x E L x x x x x

H. pylori flagellar sheath adhesion protein sequence ->
(SEQ ID NO: 3)

M Q E I D K K L T Q K N L E S Y Q K D A K E L K G K R N

Mycoplasma hominis Lp1 homologous sequence ->
(SEQ ID NO: 4)

x x E I x K K L x x x x x E S x x K D A K E L x G x R N

FIG 2a

Streptococcus pneumoniae pspA homologous sequence ->

(SEQ ID NO: 2)

H. pylori flagellar sheath adhesin protein sequence ->

(SEQ ID NO: 3)

Mycoplasma hominis Lp1 homologous sequence ->

(SEQ ID NO: 4)

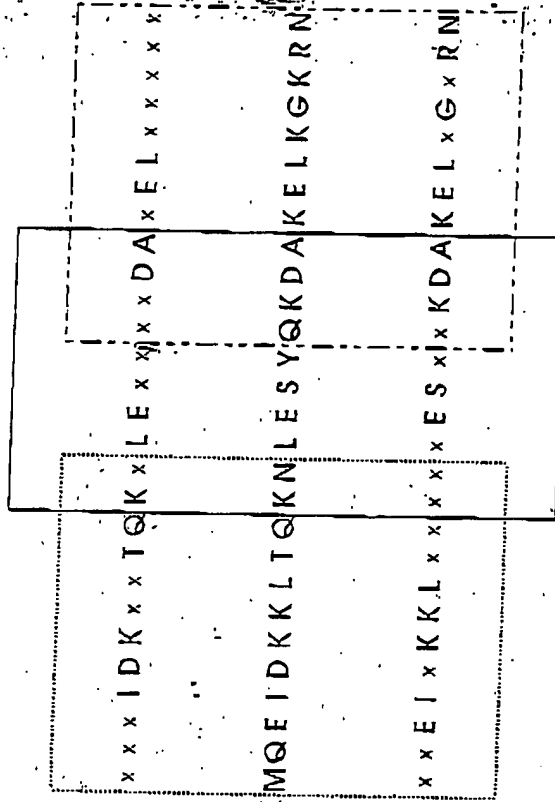


Figure 3 Plot

Figure 4 Plot

Figure 5 Plot

FIG 2b

H. pylori Peptide MQEIDKKLTQKN[↑]Test.Data (SEQ ID NO:5)

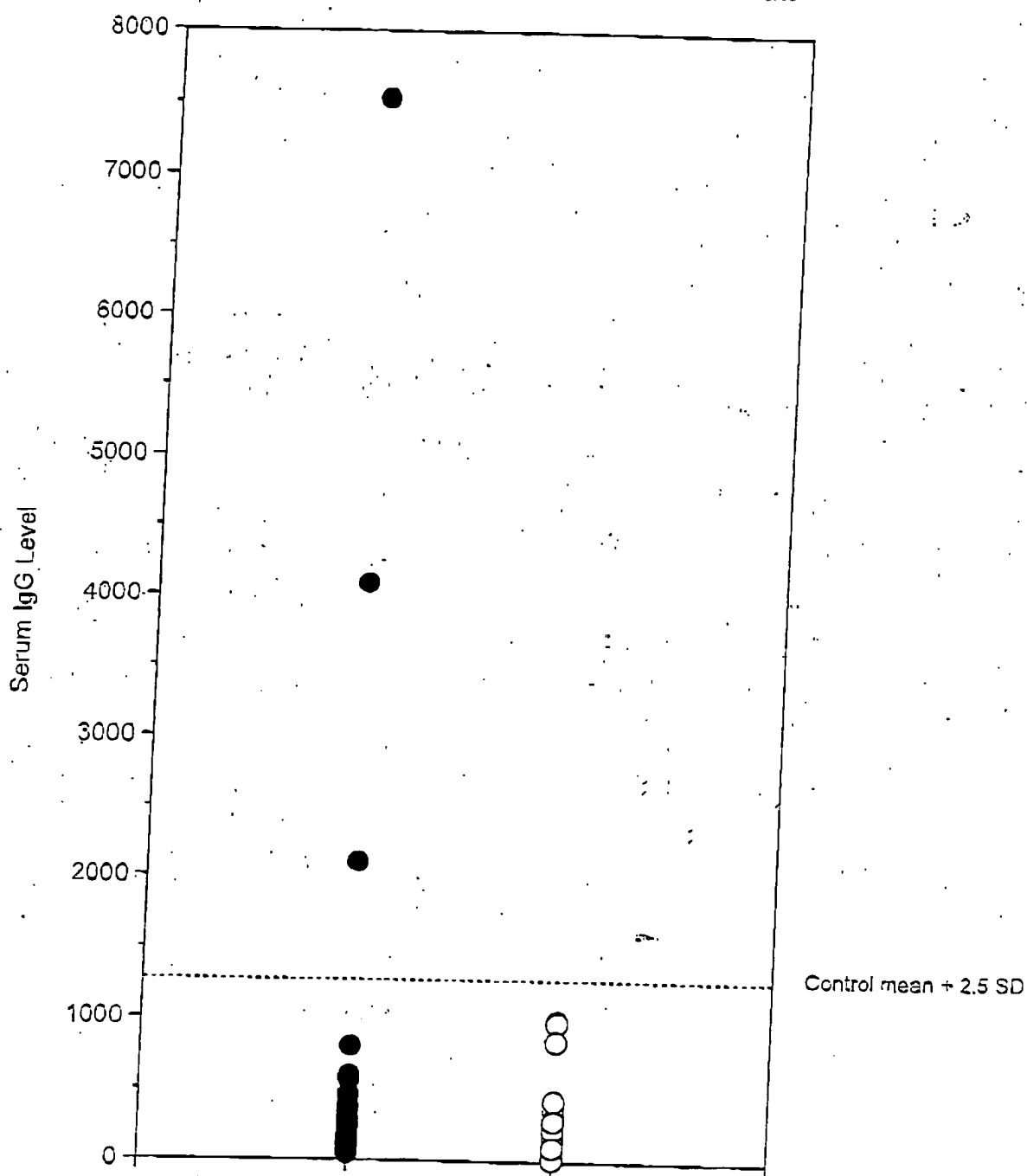


Fig. 3

● *H. pylori*-Positive Patient Sera
○ Control Subject Sera

H. pylori Peptide KNLESYQKDA Data (SEQ ID NO:6)

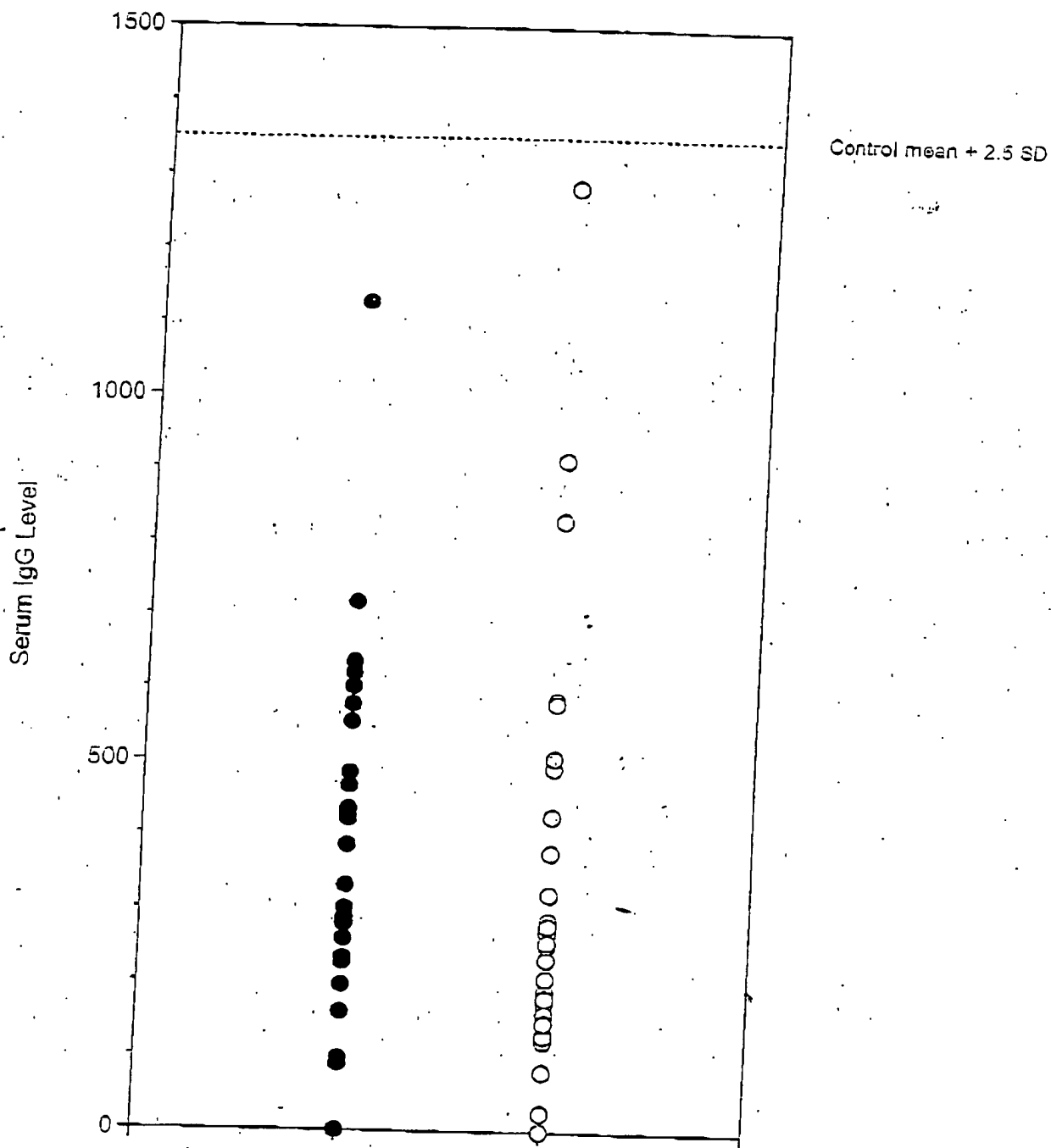


FIG. 4

- *H. pylori*-Positive Patient Sera
- Control Subject Sera

(SEQ ID NO:7)
H. pylori Peptide QKDAKELKGKRN Data

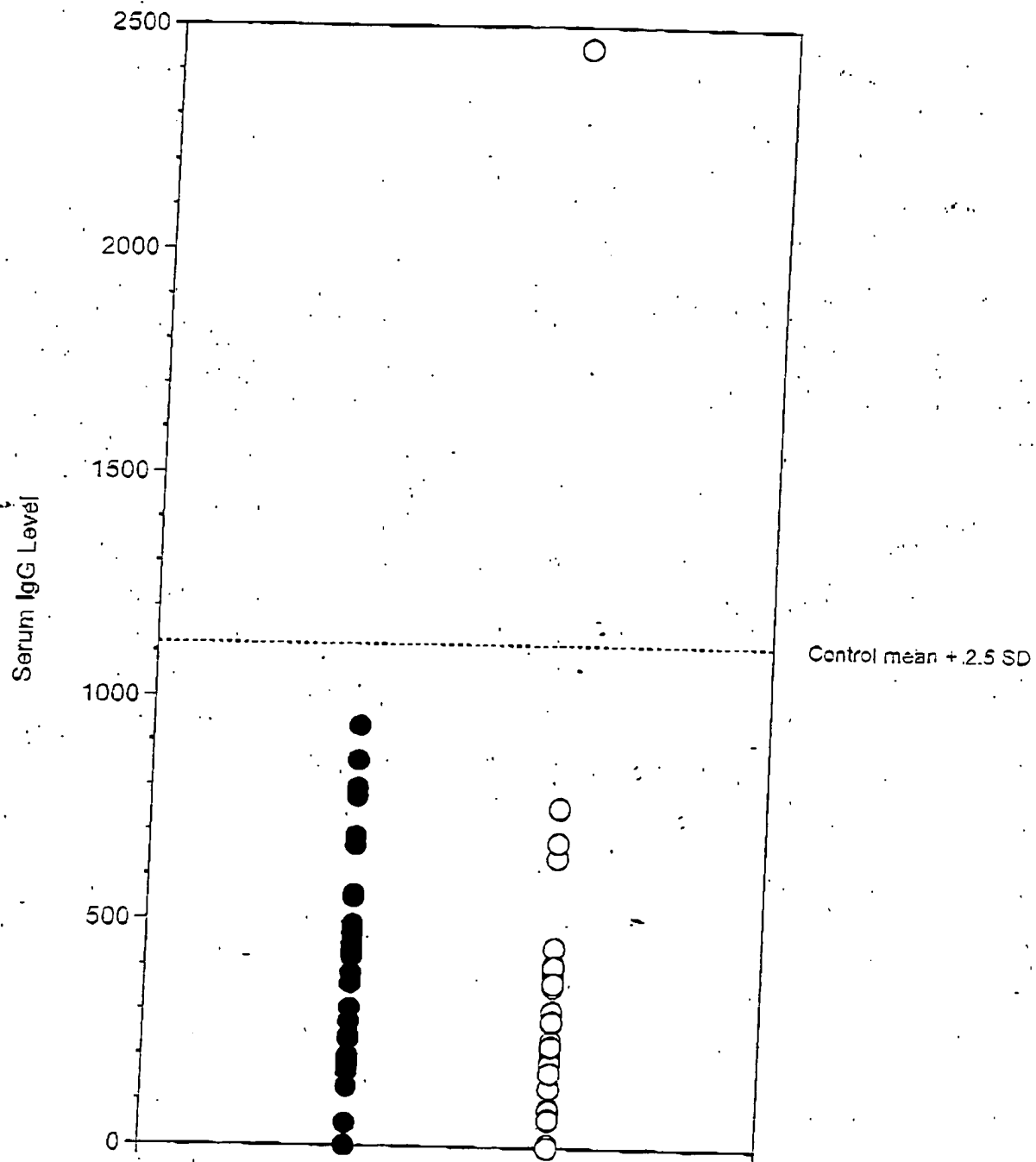


FIG 5

- *H. pylori*-Positive Patient Sera
- Control Subject Sera

FIG. 6

Parent *H. pylori* Protein

Adhesin 2

Iron-Regulated Outer
Membrane Protein

Lipid A Disaccharide Synthase

LPP20 Lipoprotein

Flagellar Sheath Adhesin

Outer Membrane Protein 1

Outer Membrane Protein 19

Outer Membrane Porin 1

Outer Membrane Porin 2

Vacuolating Cytotoxin

Functionally Specific
Peptide Antigens

LPALKENNGKV (SEQ ID NO: 8)

VTTKGERTFEYNN (SEQ ID NO: 9)

LEQNEGFKRRV (SEQ ID NO: 10)

TVDasGKRSISG (SEQ ID NO: 11)

MQEIDKKLTQKN (SEQ ID NO: 12)

NTRYDRWAKD (SEQ ID NO: 13)

INGDKRTGGKPNTPE (SEQ ID NO: 14)

SSSEYEKLKA (SEQ ID NO: 15)

KEQHEAKGPDV (SEQ ID NO: 16)

QQTHRKINRP (SEQ ID NO: 17)

KQAEANKTP (SEQ ID NO: 18)

KTPDKPDKVW (SEQ ID NO: 19)

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FIG. 7a

Number of IgG-Positive Results On Individual Peptide Assays

[illegible]

Introduction

FIG. 7b

Number of IgG-Positive Results On Individual Peptide Assays

[illegible]

Human Type II Collagen Functionally Specific Peptide Antigens

QGQDVRQPG (SEQ ID NO: 20)

GRDGE (SEQ ID NO: 21)

GGFDEKAGGA (SEQ ID NO: 22)

WPGLPGA (SEQ ID NO: 23)

GLPGTPGTDGPKGASGPAGPPGAQGPPG (SEQ ID NO: 24)

GPEGAPGKDGGRLT (SEQ ID NO: 25)

GEVGPPGPAGSAGARGAP (SEQ ID NO: 26)

TGPKGARGAQGPPGATGFPGAA (SEQ ID NO: 27)

NGNPGPPGPPGPS (SEQ ID NO: 28)

LQGPAGPP (SEQ ID NO: 29)

AVGAPGAPGPPGSPGPAGPTGKQGD (SEQ ID NO: 30)

KGHRGFTGLQ (SEQ ID NO: 31)

IGPPGPRGRSGETGPAGPPGN (SEQ ID NO: 32)

FIG 8

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